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MOSCOW — G-2 USAREUR — Documentary — IC: 64

MOSKVA OBLAST — Truck and Tractor Distributor

USSR — Technopromimport

1954 Date of Info — USAREURIC 513 MIG/CS 8143 (15434) Source — November 1954 Date of Report

Report prepared with the assistance of 81st Ord.TID.

SOURCE : Four brochures describing vehicles sold by subject company. Brochures were obtained by a member of this organization at the September 1954 fair in SALONIKA, Greece.

PRODUCTS SOLD :

KDP-35 Tractors. 37 HP 4-cycle diesel caterpillar type tractor for cultivating row crops. (For detailed specifications and pictures, see Inclosure 1.)

ZIS-156 Trucks. Six-cylinder 3½-ton truck operating on gasoline or gas. Similar to ZIS-150 truck. (For detailed specifications and pictures, see Inclosure 2.)

MAZ-205 Dump Trucks. Four-cylinder, 2-cycle diesel dump truck for use in industry, on construction projects, and in quarries. (For detailed specifications and pictures, see Inclosure 3.)

MAZ-200 Trucks. Following is a translation of Inclosure 4, a brochure written in French:

"The MAZ-200 Truck, which has a 110 HP engine using diesel fuel, is guaranteed to give perfect service with its exceptional safety features and economical operation. It is well suited for interurban freight traffic and can carry a great variety of cargoes. The MAZ-200 truck can be used with a trailer of maximum 4-ton load. Its oversize reinforced tires permit extensive traveling over all types of terrain. The closed driver's cab of the MAZ-200, seating three persons, is equipped with air vents, air-actuated windshield wipers, and has upholstered seats, with the drivers seat adjustable. Its excellent lighting system, its air brakes acting on all four wheels, and its emergency hand brake provide perfect safety for day as well as night driving.

Technical Data

General data. Working load 7 tons. Overall dimensions: length 7,620 mm, width 2,650 mm, height 2,430 mm. Length from axle to axle 4,520 mm. Track width: front wheels 1,950 mm, rear wheels (measured between centers of the dual wheels) 1,920 mm. Net weight 6,170 kg. Maximum speed (with governor and normal load) 65 km per hour. Fuel consumption 35 liters per 100 km. Capacity of fuel tank 225 liters. Outside dimensions of cargo body: length 4,500 mm, width 2,480 mm, height of uprights 600 mm.

Engine. Four-cylinder 2-cycle diesel engine with direct compressed air-type fuel injection system.

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MOSCOW — Truck and Tractor Distributor

PRODUCTS SOLD :

Bore and stroke of cylinders 108 x 127 mm. Displacement 4.65 liters. Compression ratio: 16 : 1. Maximum power 110 HP at 2,000 rpm. Specific fuel consumption 205 grams per HP/hour. Roots type triple-vane air compressor. Combination splash and force feed lubrication. Capacity of lubrication system 15.5 liters. Oil cooling by plate type radiator. Engine is liquid cooled by forced circulation system. Cooling system capacity 46 liters. Engine starting by means of electric starter.

Clutch. Single disc type.

Transmission. Three idling gears, five forward speeds, and 1 reverse. Gear ratios: first gear 6.7 : 1; second gear 3.40 : 1; third gear 1.79 : 1; fourth gear 1 : 1; fifth gear 0.78 : 1 (overdrive); reverse gear 6.69 : 1.

Propeller shaft. Without casing; split type with intermediate bearing. Universal joints fitted with needle bearings.

Front axle. Forged steel with I-beam section and positioned to the rear of the steering arm.

Steering gear. Left hand drive. Worm gear and sector steering. Gearing ratio of worm to sector 21.2 : 1.

Rear axle: Cast steel. Double reduction with helical spur gears mounted on tapered roller bearings. Ratio 8.21 : 1. The differential, in addition to the bevel ring gear, has four planetary gears. Planetary gears and pinions of rear axle are fitted with bronze bushings. Mounting and drive of rear wheels are full-floating.

Suspension. Semi-elliptical leaf springs on all four wheels.

Frame. Riveted parallel U-beams connected by 6 cross members.

Wheels. Pressed sheet steel. Wheel discs and rims are welded. Rims, which are straight-sided, are fitted with removable rings.

Tires. Balloon. 12 x 20 inches.

Brakes. Air foot brakes acting on all four wheels. Emergency hand brakes which operates 2 calipers on a disc mounted on the transmission output shaft.

Electrical equipment. Single wire 12-volt system with frame providing ground circuit. Three-pole shunt-wound 250 watt generator with regulator. Starter 24 volt, 7.5 HP, engaged by solenoid. Two 12-volt storage batteries, each 150 ampere/hours. 2 headlights with upper and lower beams. Horn. 2 parking lights. 1 tail light and stop light. Ceiling light in cab.

Standard equipment. Dashboard with speedometer, ampere gauge, temperature gauge, fuel gauge and oil pressure

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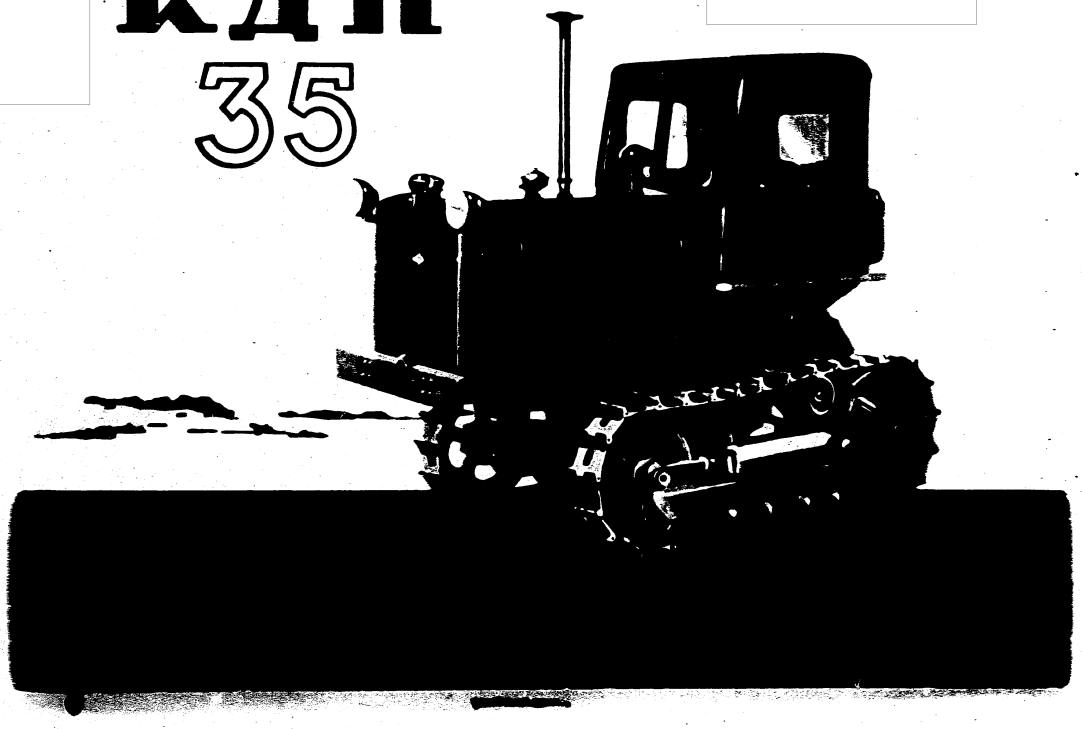
# КДП 35



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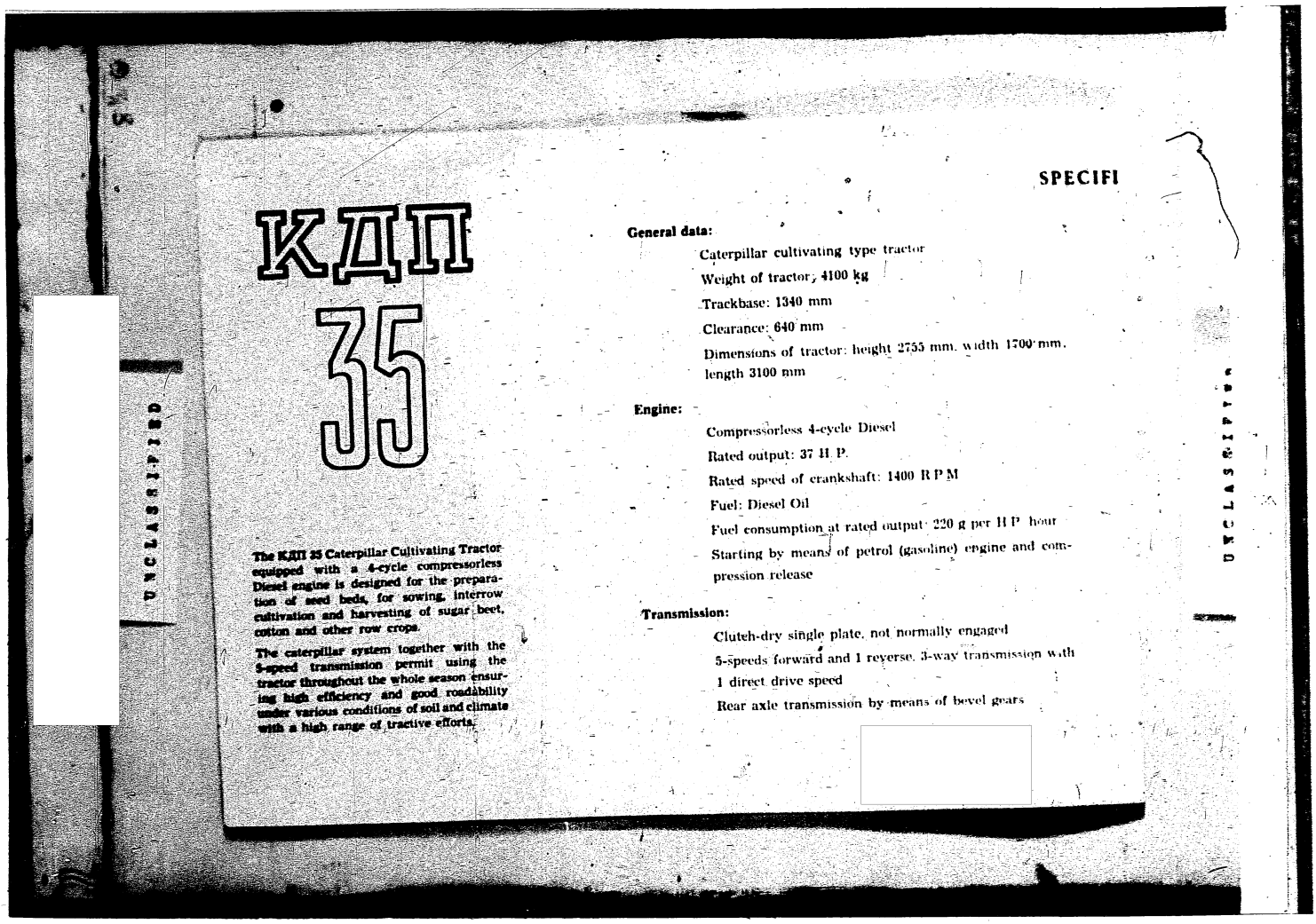

# КДП 35

**The КДП 35 Caterpillar Cultivating Tractor equipped with a 4-cycle compressorless Diesel engine is designed for the preparation of seed beds, for sowing, interrow cultivation and harvesting of sugar beet, cotton and other row crops.**

**The caterpillar system together with the 5-speed transmission permit using the tractor throughout the whole season ensuring high efficiency and good roadability under various conditions of soil and climate with a high range of tractive efforts.**

## SPECIFI

**General data:**

Caterpillar cultivating type tractor

Weight of tractor, 4100 kg

Trackbase: 1340 mm

Clearance: 640 mm

Dimensions of tractor: height 2755 mm, width 1700 mm, length 3100 mm

**Engine:**

Compressorless 4-cycle Diesel

Rated output: 37 H P.

Rated speed of crankshaft: 1400 R P M

Fuel: Diesel Oil

Fuel consumption at rated output: 220 g per H P hour

Starting by means of petrol (gasoline) engine and compression release

**Transmission:**

Cluteh-dry single plate, not normally engaged

5-speeds forward and 1 reverse, 3-way transmission with 1 direct drive speed

Rear axle transmission by means of bevel gears

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## CATIONS

**Transmission:**

Turning mechanism: steering clutches and steering brakes
Steering clutch transmissions — double stage reduction with spur gear wheels
Tractor speeds (calculated): 1st speed 3.81 km hour, 2nd speed 4.65 km hour, 3rd speed 5.22 km hour, 4th speed 6.13 km hour, 5th speed 9.11 km hour, reverse 3.54 km hour
Tractive effort from 550 to 1750 kg
Drawbar Horsepower: 24

**Propelling system:**

Suspension: semi-elastic with transverse balance
Springs: plate, not-cut
Caterpillar carriages welded construction
8 track supporting rollers, 4 per carriage
2 track carrier rollers, one on each side of tractor
Tension mechanisms: elastic with wound springs
Caterpillar tracks with spade lugs
Cast caterpillar links 200 mm wide

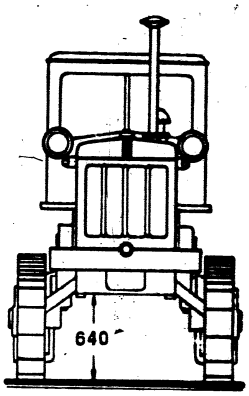
**Hitching gear:**

Rear, rigid

Cross section overall dimensions of the tractor as well as its high clearance ensure high quality cultivation of tall row crops without damage to the plants.

The tractor operates in conjunction with various trailing and hanging implements ploughs, cultivators, drill sowers, sugar beet combines and others.

The tractor is also available with power take-off and caterpillar having 280 mm links instead of narrow links.

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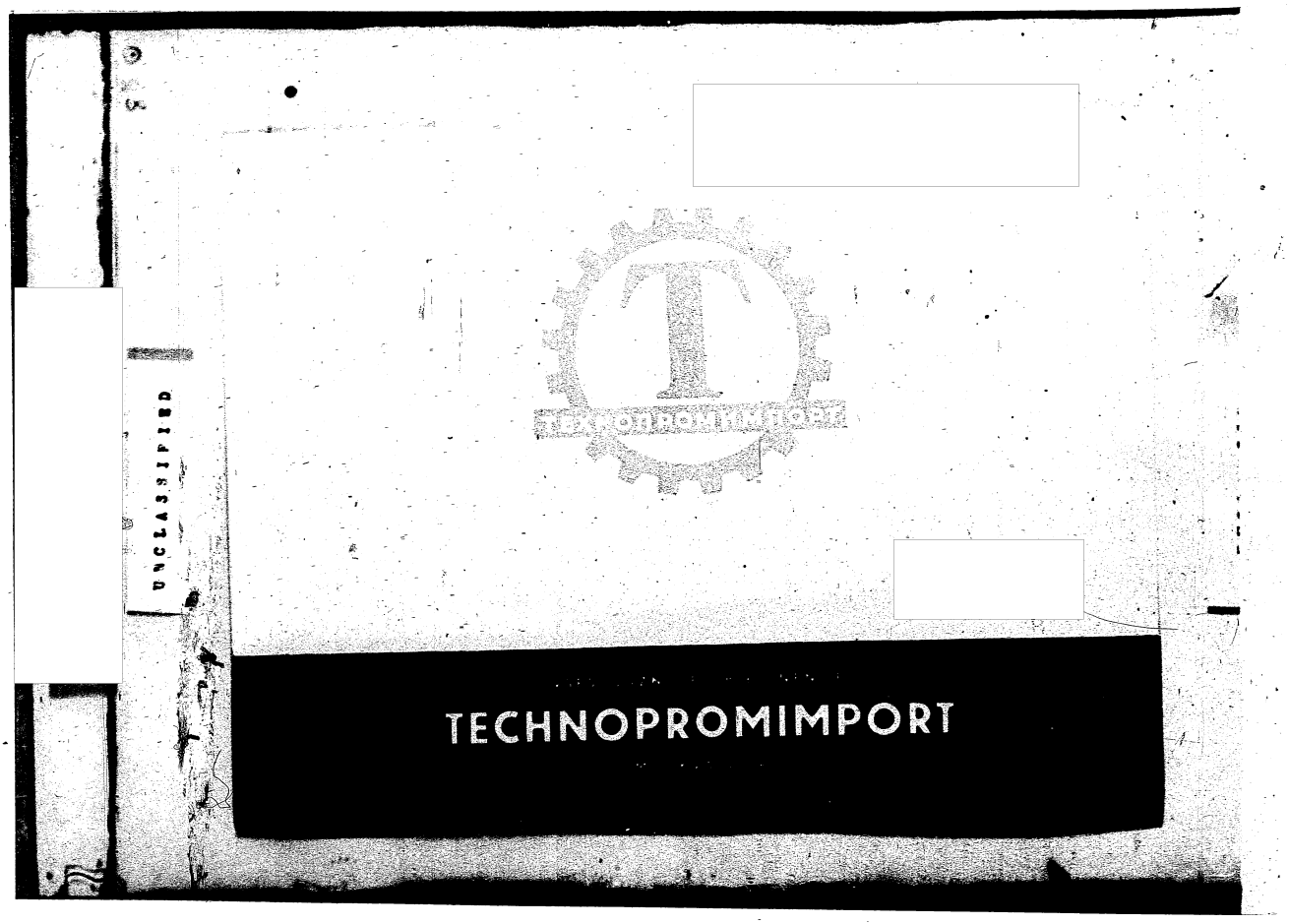


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Le véhicule industriel MAZ-200 avec moteur à huile lourde de 110 CV assure un service impeccable dans des conditions exceptionnelles d'économie et de sécurité.

Il se prête avec succès à l'exploitation dans les services interurbains de messageries pour le transport des charges les plus variées.

Le véhicule industriel MAZ-200 est prévu pour utilisation avec remorques à charge utile ne dépassant pas 4 tonnes.

Les pneus renforcés de grandes dimensions dont il est doté augmentent sa capacité de franchissement sur tous terrains.

La cabine fermée, trois places, du MAZ-200 comporte: des lucarnes d'aérage, des essuie-glace pneumatiques, des sièges rembourrés pour les voyageurs et un siège rembourré, réglable pour le conducteur.

L'excellent éclairage dont il est doté, ses freins pneumatiques agissant sur les quatre roues, son système de frein à main permettent à ce véhicule de circuler dans les meilleures conditions de sécurité de jour comme de nuit.

ТЕХНОПРОМИМПОРТ

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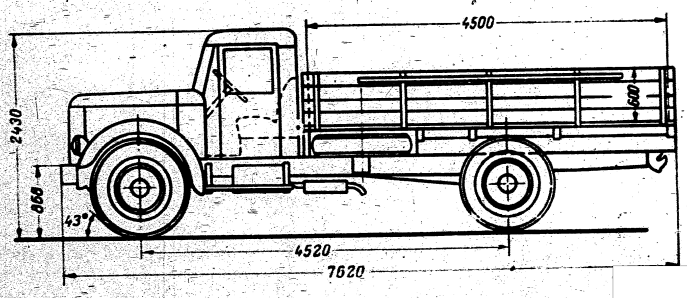
**Pont arrière de transmission** : sans carter, en deux parties, avec palier intermédiaire. Les croisillons des joints sont dotés de roulements à aiguilles.

**Essieu AV** : en acier forgé, à section en I. Disposition arrière du trapèze de direction.

**Le standard de bord** : planche de bord comprenant compteur de vitesse, ampèremètre, thermomètre, jauge de combustible, manomètre. Tachymètre et manomètre du système de freinage montés à part. Essuie-glace pneumatique. Trousse d'outils et d'accessoires. Roue de secours avec pneu.

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# CARACTÉRISTIQUES TECHNIQUES

**Principales données du véhicule.** Charge utile – 7 t. Encombrement: longueur – 7630 mm, largeur – 2600 mm, hauteur – 2650 mm. Empattement – 4320 mm. Voie: roues AV – 1920 mm, roues AR (compte entre les milieux des groupes jumelés) – 1920 mm. Poids mort – 6170 kg. Vitesse maxima (avec régulateur et charge normale) – 65 km/h. Consommation aux 100 km – 35 l. Capacité du réservoir à combustible – 225 l. Dimensions intérieures du plateau ridelles: longueur – 4500 mm, largeur – 2480 mm, hauteur des ridelles – 600 mm.

**Moteur** – Diesel deux temps à balayage/équicourant et à injection directe du combustible. Nombre de cylindres – 4. Alésage et course – 108 × 127 mm. Cylindrée – 4,65 l. Taux de compression – 16 : 1. Puissance maxima : 110 CV à 2600 t/min. Consommation spécifique : 205 g au cheval-heure effectif. Compresseur à air de balayage : type Roots, à rotor trilobé. Graissage : mixte, sous pression et par barbotage. Capacité du système de graissage – 15,5 l. L'huile est refroidie par eau dans un radiateur à lames. Refroidissement du moteur – à circulation forcée de liquide. Capacité du système de refroidissement – 46 l. Mise en marche du moteur – par démarreur électrique.

**Embrayage** – à disque unique.

**Boîte de vitesses** – à trois baladeurs; cinq vitesses en marche AV et une vitesse en marche AR. Démultiplications: 1re vitesse – 6,17 : 1; 2e vitesse – 3,40 : 1; 3e vitesse – 1,79 : 1; 4e vitesse – 1 : 1; 5e vitesse – 0,78 : 1 (sur multiplée); marche AR – 6,29 : 1.

**Mécanisme de direction** – disposé à gauche. La commande est à vis sans fin et secteur denté. Démultiplication – 21,2 : 1.

**Pont AR** – BAR en acier moulé. Réducteur double à pignons cylindriques à denture hélicoïdale monté sur des roulements à rouleaux coniques. Démultiplication – 8,21 : 1. Différentiel à pignons coniques à quatre satellites. Les satellites et les pignons des demi-essieux sont dotés de rondelles de butée en bronze. Montage et entraînement des roues AR – full-floating.

**Suspension du véhicule** – sur quatre ressorts semi-elliptiques.

**Châssis** – assemblé par rivetage. Longerons en U emboutis, montés parallèlement et réunis par six traverses.

**Roues** – en tôle emboutie. Voiles et jantes sont réunis par soudure. Les jantes sont dotées d'anneaux démontables (jantes straight side).

**Pneus ballon.** Dimensions – 12 × 20 pouces.

**Freins.** Frein au pied pneumatique agissant sur les quatre roues. Frein à main, mécanique, à deux mâchoires, monté sur l'arbre de la boîte de vitesses.

**Equipement électrique.** Système à fil unique et retour à la masse. Tension – 12 V. Dynamo shunt tétrapolaire, 250 W. Conjoncteur-disjoncteur de régulation. Démarreur – 24 V; 7,5 CV commandé par solénoïde. Deux batteries d'accumulateurs, 12 V, 150 A-h chacune. Deux phares (feux: code, route). Avertisseur. Deux feux ville. Un feu arrière et stop arrière. Plafonnier dans la cabine.

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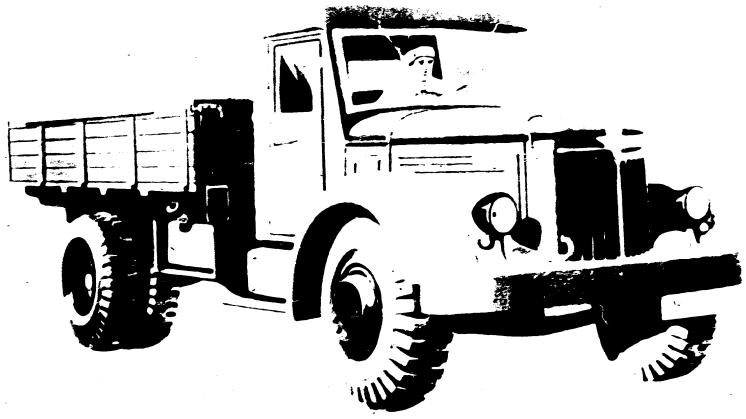

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The gas-bottle ЗИС-156 Truck is built on the basis of the ЗИС-150 Truck. It is fitted with a special gas installation allowing operation of the truck either on petrol (gasoline) or on natural, oil, coke and other gases compressed up to 200 atm.

The ЗИС-156 Truck with a 3.5 ton payload is used to cart loads on roads of various types. It has a large capacity strong wooden platform with three securely lockable flaps.

The ЗИС-156 Truck is designed to operate with a trailer of a total weight, including its load, up to 5 tons.

The convenient and sturdy steel cab for three persons (including the driver) is fitted with an adjustable seat that can be set to suit the driver.

The convenient arrangement of the controls and instruments, the pneumatic and hand brakes, also efficient road illumination ensure comfort for the driver and driving safety at all times.

The ЗИС-156 Truck is sturdily built, economic in service and has convenient controls, thus allowing operation even in severe conditions.

The gas-bottle installation reduces the cost of load carting and extends the range of the ЗИС-156 Truck.

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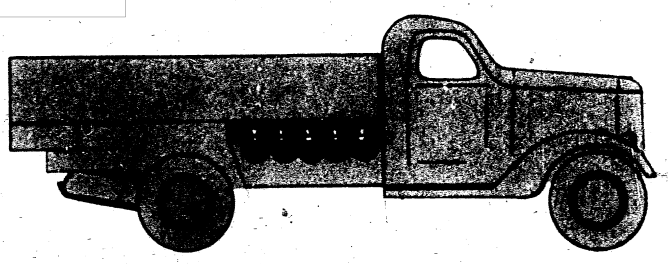
section for air and with gas inlet pipe connection. Main, bottle and filling valves. Pressure gauges one high pressure and one low pressure are mounted in the driver's cab. Gas lines: steel pipes for high pressure, durite and steel pipes for low pressure.

**Electric equipment.** Dynamo, 12 Volt, 150 Watt, operating in conjunction with reverse current relay, voltage regulator and current limiter. Storage battery, 12 Volt, 100 Ampere-hour. Starter 1.8 h. p.

**Transmission.** Twin-disc dry clutch. Three-way gearbox, 5 forward speeds and one reverse. Gear ratios: first speed 6.24:1, second speed 3.32:1, third speed 1.90:1, fourth speed 1.00:1.

Clearance: under front axle 325 mm, under rear axle 265 mm. Minimum turning radius at outside front wheel fender 8.5 m. Weight of Truck not loaded (in running order) 4600 kg. Maximum speed with normal load, regulated, 60 km hour. Fuel tank capacity 150 litres; capacity of 8 gas bottles 80 m³.

**Instruments and standard equipment.** Water temperature indicator in engine cooling system, oil pressure gauge, speedometer, gauge indicating fuel level in the tank, ammeter, brake system pressure gauge, rear view mirror, pneumatic windshield wiper, driver's tool kit and accessories, spare wheel with tyre.



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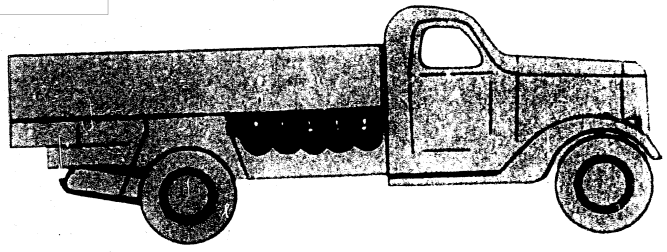
section for air and with gas inlet pipe connection, main bottle and filling valves. Pressure gauges – one high pressure and one low pressure – are mounted in the driver's cab. Gas lines: steel pipes for high pressure, durite and steel pipes for low pressure.

**Electric equipment.** Dynamo, 12 Volt, 150 Watt, operating in conjunction with reverse current relay, voltage regulator and current limiter. Storage battery, 12 Volt, 100 Ampere-hour. Starter 1.8 h. p.

**Transmission.** Twin-disc dry clutch. Three-way gearbox, 5 forward speeds and one reverse. Gear ratios: first speed 6.24 : 1, second speed 3.32 : 1, third speed 1.90 : 1, fourth speed 1.00 : 1.

Clearance: under front axle 425 mm, under rear axle 265 mm. Minimum turning radius at outside front wheel fender 8.5 m. Weight of Truck not loaded (in running order) 4600 kg. Maximum speed with normal load, regulated, 60 km hour. Fuel tank capacity 150 litres; capacity of 8 gas bottles 80 m.

**Instruments and standard equipment.** Water temperature indicator in engine cooling system, oil pressure gauge, speedometer, gauge indicating fuel level in the tank, ammeter, brake system pressure gauge, rear view mirror, pneumatic windshield wiper, driver's tool kit and accessories, spare wheel with tyre.



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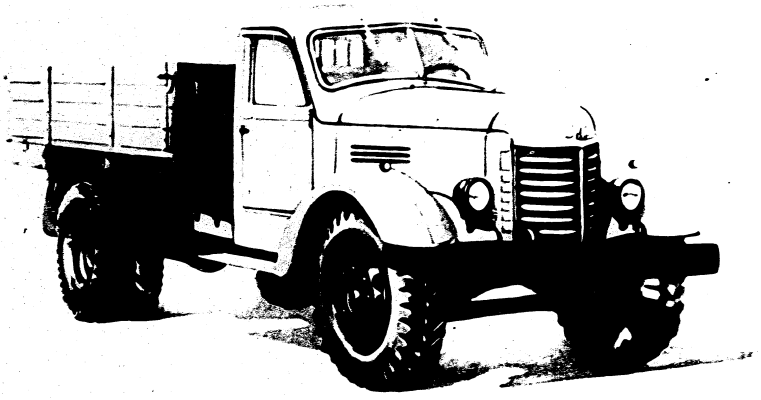

# ЗИС-156

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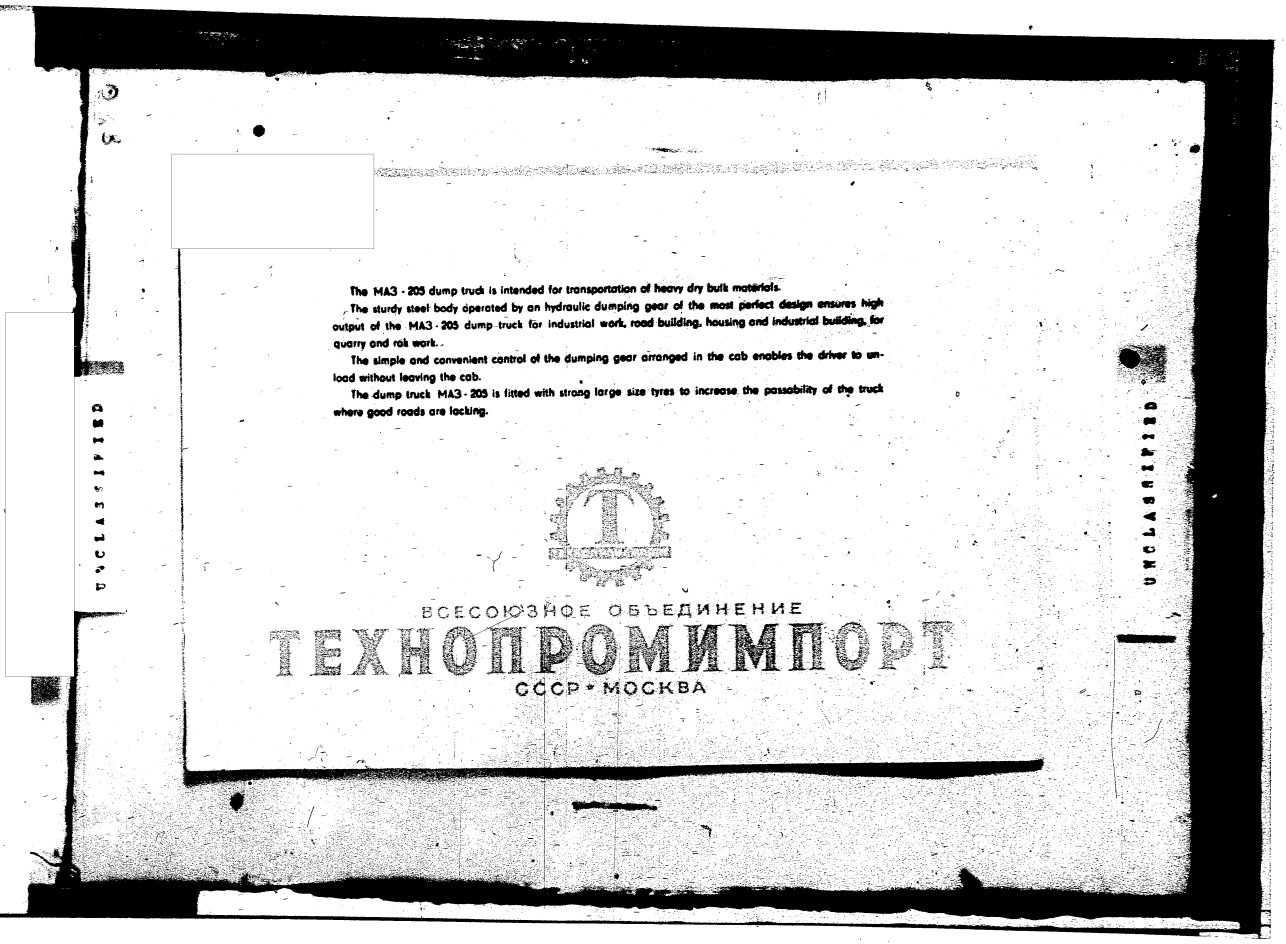

The MA3 - 205 dump truck is intended for transportation of heavy dry bulk materials.

The sturdy steel body operated by an hydraulic dumping gear of the most perfect design ensures high output of the MA3 - 205 dump truck for industrial work, road building, housing and industrial building, for quarry and rok work.

The simple and convenient control of the dumping gear arranged in the cab enables the driver to unload without leaving the cab.

The dump truck MA3 - 205 is fitted with strong large size tyres to increase the passability of the truck where good roads are lacking.

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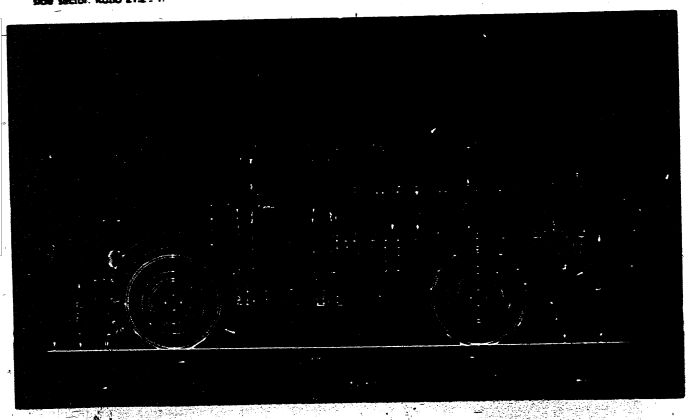
**Front axle.** Forged steel I-beam section. Steering gear trapeze placed behind.

**Steering gear.** Mounted on left hand side. Gear-worm and side sector. Ratio 21.2 : 1.

meter, ammeter, thermometer, fuel level gauge and pressure gauge.
Seperate tachometer and brake system pressure gauge
Pneumatic wind screen wiper. Driver's kit and accessories. Spare wheel with tyre.



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# SPECIFICATION

**General data.** Pay load 5 6 t. body capacity 3.6 m³ Body size length 3000 mm width 2000 mm. height of side boards 600 mm. height of rear and front boards 785 mm Steel body with hydraulic dumping gear for rear unloading. Maximum angle of body when raised 50 Time required to raising body 30 seconds Wheel base 3800 mm Track front wheels 1950 mm., rear wheels 1920 mm Ground clearance of truck fully loaded under front axle 290 mm., under rear axle housing 290 mm. Weight of truck in running order not loaded 6700 kg Maximum highway road speed fully loaded, engine governed, 60 km hour. Fuel consumption on 100 km track 35 litres Fuel tank capacity 105 litres.

**Engine.** Four-cylinder two-cycle Diesel engine with straight through scavenging and direct fuel injection Bore and stroke 108 127 mm Piston displacement 4.64 litres Compression ratio 16 1 Maximum power 110 H P at 2000 R P M Fuel consumption 215 grams (B H P) hour Three blade spiral air blower rotors. Combined forced and splash lubrication Lubrication system capacity 15,5 litres Oil cooling by means of a lamellar water radiator Engine cooling forced liquid circulation system Cooling system capacity 46 litres Engine starting – by means of electric starter

**Clutch.** Single plate dry type

**Transmission.** Three way with 5 forward speeds and 1 reverse Gear ratios First gear 6.17 1, Second gear 3.40 1 Third gear 1.79 1, Fourth gear 1.00 1, Fifth gear 0.78 1, Reverse 6.69 1

**Propeller shaft.** Open two piece type wit intermediate bear

**Rear axle.** Cast steel housing Main drive double reduction with spiral cylindrical gears on tapered roller bearings Ratio 9.00 1 Bevel differential Four spider pinions Spider pinions and differential side gears are fitted with bronze thrust washers Fully floating axle shaft

**Truck suspension.** On four longitudinal semi-elliptical springs

**Frame.** Riveted Side members are pressed channel section placed parallel and tied by six cross members

**Wheels.** Pressed Wheel discs and rims are welded Wheel rims are fitted with flange locking rings

**Tyres.** Balloon type Size 1200 20

**Brakes.** Foot brakes pneumatic type on all four wheels Hand brake mechanical, double shoe drum type mounted on transmission shaft

**Electrical equipment.** One wire 12 volt system Four pole shunt wound 250 watt generator Relay regulator unit Starter 24 volt, 7.5 HP with solenoid control Two double filament head lamps Horn Two side lamps Tail lamp with stop signal Two 12 volt batteries 150 ampere hours each Cab ceiling lamp

**Dumping gear.** Hydraulic single cylinder connected to the body by means of a lever system The gear pump forming one block with the cylinder is operated by means of new propeller shafts from the power take off transmission The control valve enables to stop lower and raise the body in any position The speed of raising and lowering the body can be regulated Oil system capacity 17 litres

**Standard Equipment.** Set of instruments including speedo

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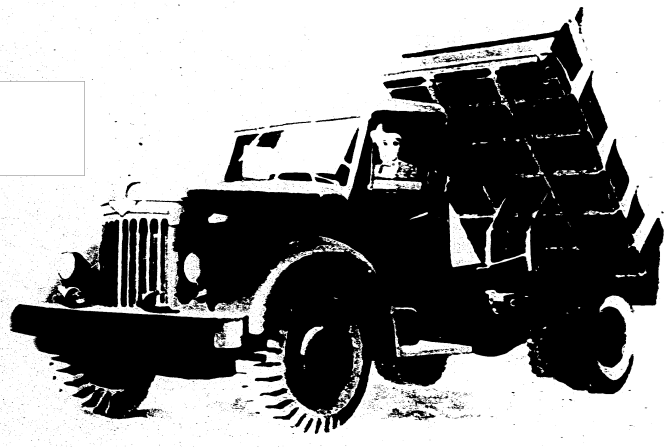

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